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How to change rear wheel bearing on MERCEDES-BENZ E-Class Saloon (W212) – replacement guide







SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

i Important!

This replacement procedure can be used for:

MERCEDES-BENZ E-Class Saloon (W212) E 250 CDI / BlueTEC 4-matic (212.082, 212.097), MERCEDES-BENZ E-Class Saloon (W212) E 300 CDI / BlueTEC (212.020, 212.021, 212.027), MERCEDES-BENZ E-Class Saloon (W212) E 350 CDI (212.023), MERCEDES-BENZ E-Class Saloon (W212) E 350 CDI 4-matic (212.093), MERCEDES-BENZ E-Class Saloon (W212) E 200 NGT (212.041), MERCEDES-BENZ E-Class Saloon (W212) E 63 AMG (212.074), MERCEDES-BENZ E-Class Saloon (W212) E 300 (212.054), MERCEDES-BENZ E-Class Saloon (W212) E 500 4-matic (212.091), MERCEDES-BENZ E-Class Saloon (W212) E 350 4-matic (212.088), MERCEDES-BENZ E-Class Saloon (W212) E 350 CGI (212.047, 212.147), MERCEDES-BENZ E-Class Saloon (W212) E 350 CGI (212.057), MERCEDES-BENZ E-Class Saloon (W212) E 350 CGI (212.057), MERCEDES-BENZ E-Class Saloon (W212) E 350 4-matic (212.087), MERCEDES-BENZ E-Class Saloon (W212) E 500 (212.072), MERCEDE

The steps may slightly vary depending on the car design.

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Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI (211.006)

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REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ E-CLASS SALOON (W212). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- All-purpose cleaning spray
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Combination spanner #18
- Combination spanner #21
- Drive socket #8
- Drive socket # E12
- Drive socket # 16
- Drive socket # 18
- Drive socket # E18
- Drive socket # 32
- HEX bit no.H10.

- Torx bit M12
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Flat chisel
- Pin punch
- Pliers
- Round-nose pliers
- Flat Screwdriver
- Bush and bearing driver set
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

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Replacement: wheel bearing – MERCEDES-BENZ E-Class Saloon (W212). AUTODOC experts recommend:

- Do not re-use the bearing assembly of your MERCEDES-BENZ E-Class Saloon (W212) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ E-CLASS SALOON (W212). USE THE FOLLOWING PROCEDURE:

- Secure the wheels with chocks.
- Loosen the wheel mounting bolts. Use wheel impact socket #17.
- Raise the rear of the car and secure on supports.
- 4. Unscrew the wheel bolts.



AUTODOC recommends:

 Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ E-Class Saloon (W212)

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Remove the wheel.



Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



Unscrew the caliper bracket fastening. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- Remove the fastening bolts (2 pieces).
- Remove the brake caliper together with its bracket.



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Replacement: wheel bearing - MERCEDES-BENZ E-Class Saloon (W212). Tip:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



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Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.



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12 Remove the brake disc.



Unstake the wheel hub retaining nut. Use a flat metal-working chisel. Use a hammer.



Unscrew the wheel hub axle nut. Use a drive socket #32. Use a ratchet wrench.



- 15 Remove the fastening nut.
- Remove the brake shoe adjuster. Use pliers. Use round-nose pliers. Use a flat screwdriver.



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Dismantle the hand brake shoes together with the lower spring.



Disconnect the parking brake cable. Use a flat screwdriver.



- Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.
- Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #18. Use HEX No.H10. Use a ratchet wrench.



- Remove the fastening bolt.
- Detach the control arm.



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- Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.
- Unscrew the stabilizer rod fasteners. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



Remove the fastening bolt.



- Remove the stabilizer rod.
- Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #18. Use Torx M12. Use a ratchet wrench.



- Remove the fastening bolt. Use Torx M12. Use a ratchet wrench.
- Unscrew the upper control arm fasteners. Use a combination spanner #18. Use a drive socket #E18. Use a ratchet wrench.



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Remove the fastening bolt. Use a pin punch. Use a hammer.



- Detach the ABS wiring harness bracket.
- Detach the control arm.



Unscrew the upper control arm fasteners. Use a combination spanner #18. Use a drive socket #E18. Use a ratchet wrench.



- Remove the fastening bolt.
- 35 Detach the control arm.
- Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #21. Use HEX No.H10. Use a ratchet wrench.



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- Detach the control arm.
- Unscrew the ABS sensor fastening from the steering knuckle. Use a drive socket #8. Use a ratchet wrench.



39 Disconnect the ABS sensor.



- Remove the fastening bolt. Use a pin punch. Use a hammer.
- Detach the driveshaft from the steering knuckle.



Replacement: wheel bearing – MERCEDES-BENZ E-Class Saloon (W212). AUTODOC recommends:

• Make sure that the drive shaft is not unloaded (when the car is jacked).

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- Remove the steering knuckle together with the hub.
- Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set. Use a hammer.



Unscrew the hub bearing mounting. Use a drive socket #E12. Use a ratchet wrench.



Remove the hub bearing mounting. Use a hammer.



- Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.
- Install a new hub bearing and secure it.



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Tighten the fastener of the wheel hub bearing. Use a drive socket #E12. Use a torque wrench. Tighten it to 80 Nm torque.



- Treat the fasteners of the wheel hub bearing. Use copper grease.
- Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



Install the steering knuckle with a hub in assembly.

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- Mount the drive shaft into the wheel hub.
- Install the fastening bolt. Use a hammer.



55 Attach the control arm.



- 56 Install the fastening bolt.
- Tighten the upper control arm fasteners. Use a combination spanner #18. Use a drive socket #E18. Use a torque wrench. Tighten it to 80 Nm torque.+90°



AUTODOC recommends:

• Important! Be sure to use new fasteners.

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- Fasten the ABS wiring harness bracket.
- 59 Attach the control arm.
- Tighten the upper control arm fasteners. Use a combination spanner #18. Use a drive socket #E18. Use a torque wrench. Tighten it to 80 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.
- Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #21. Use HEX No.H10. Use a torque wrench. Tighten it to 80 Nm torque.+90°



AUTODOC recommends:

• Important! Be sure to use new fasteners.

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Attach the control arm. Use a crowbar.



- 63 Install the fastening bolt.
- Screw in the fasteners connecting the control arm to the rear knuckle. Use Torx M12. Use a ratchet wrench.



- 65 Attach the control arm.
- 66 Install the fastening bolt.
- Screw in the fasteners connecting the control arm to the rear knuckle. Use HEX No.H10. Use a ratchet wrench.



Prop up the steering knuckle. Use a hydraulic transmission jack.



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Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #18. Use HEX No.H10. Use a torque wrench. Tighten it to 80 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.
- Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #18. Use Torx M12. Use a torque wrench. Observe the recommended tightening torque.



Remove the support from under the steering knuckle.



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AUTODOC recommends:

- Replacement: wheel bearing MERCEDES-BENZ E-Class Saloon (W212). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.
- 72 Install the fastening bolt.
- Connect the ABS sensor.
- Screw in the fastener that connects the ABS sensor to the rear knuckle. Use a drive socket #8. Use a ratchet wrench.



- 75 Install the transverse stabilizer link.
- 76 Install the fastening bolt.



Tighten the stabiliser link fastener. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 50 Nm torque.



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78 Secure the parking brake cable.



79 Install the hand brake shoes together with the lower spring.



Insert the brake shoes adjusting mechanism. Use pliers. Use round-nose pliers. Use a flat screwdriver.



81 Install the fastening nut.

82



Tighten the hub. Use a drive socket #32. Use a torque wrench. Tighten it to 170 Nm torque.+45°



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AUTODOC recommends:

• Important! Be sure to use new fasteners.





84 Install the brake disc.



Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.



Install the brake caliper together with its bracket.



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- 87 Install the fastening bolts (2 pieces).
- Tighten the brake caliper bracket. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 115 Nm torque.



- Treat all joints of the arm. Treat all joints of the stabiliser link. Use copper grease.
- Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



Olean the brake disk surface. Use a brake cleaner.

Replacement: wheel bearing – MERCEDES-BENZ E-Class Saloon (W212). Tip from AUTODOC:

- After applying the spray, wait a few minutes.
- 92 Install the wheel.



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AUTODOC recommends:

• Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ E-Class Saloon (W212)

Screw in the wheel bolts. Use wheel impact socket #17.



Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



95 Remove the jacks and chocks.





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